



RCRA SAMPLING INVESTIGATION

**TONAWANDA COKE
CORPORATION
Tonawanda, New York**

NYD088413877

September 10, 2009

Participating Personnel:

U.S. Environmental Protection Agency

Robert Morrell, Geologist

Stephen Hale, Environmental Protection Specialist

Leonard Grossman, Environmental Scientist

New York State DEC

Tom Corbett, Inspector

Tonawanda Coke Corporation

Mark Kamholz, Environmental Control Manager

Report Prepared by:

Robert A. Morrell, Jr. 11/12/09

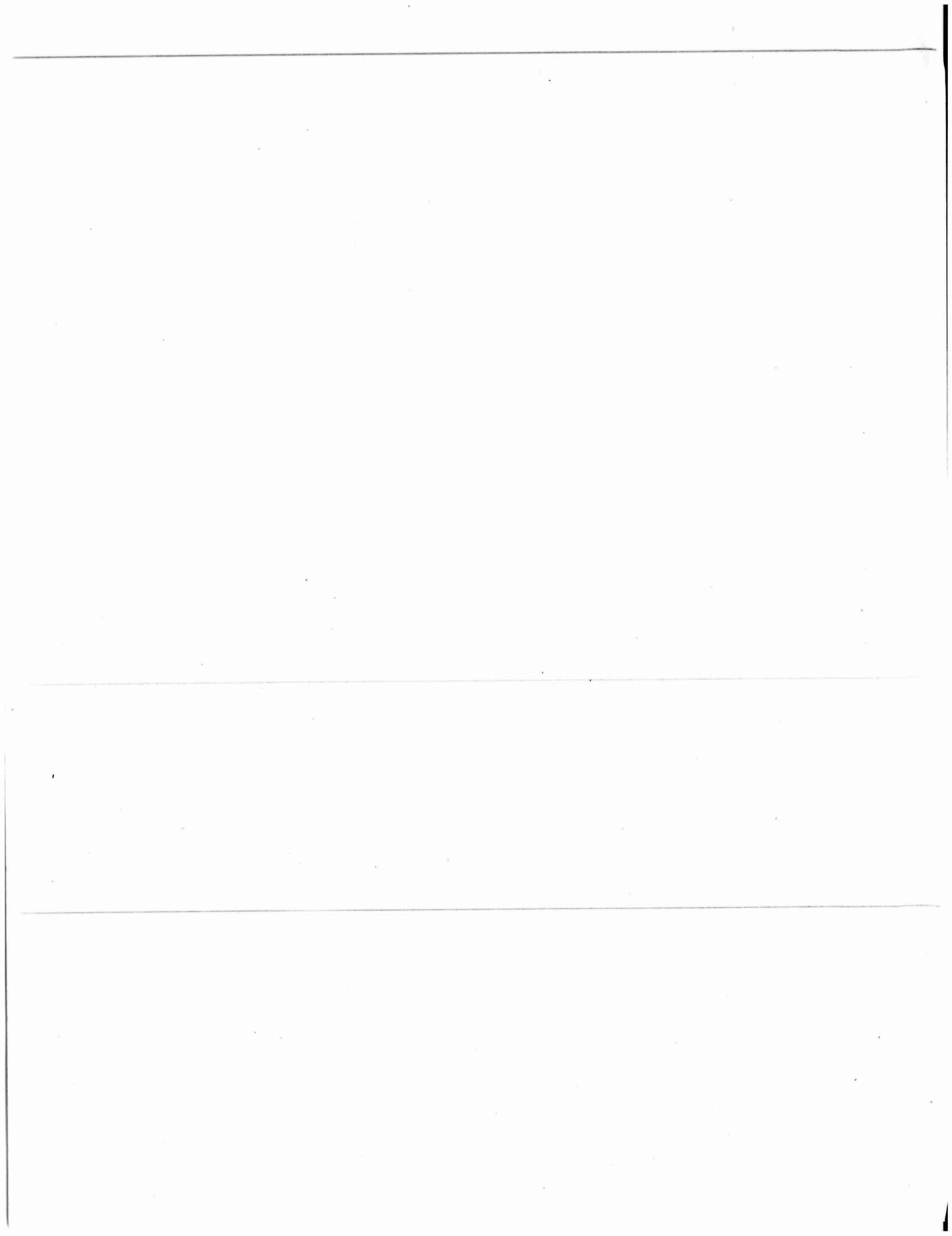
Robert Morrell, Geologist

Monitoring Operations Section

John S. Kushwara 11/13/07

John S. Kushwara, Chief
Monitoring and Assessment Branch

Approved for the Director by:



**Tonawanda Coke Corporation
Tonawanda, New York**

**NYD088413877
September 10, 2009**

RCRA Sampling Investigation

Objective

At the request of the RCRA Compliance Branch, a RCRA Sampling Investigation was conducted at Tonawanda Coke Corporation on September 10, 2009. Approximately two years ago, a fire caused two tanks to collapse and release their contents to the environment. The tanks, which were approximately 30 feet in diameter, contained coal tar decanter sludge from coking operations. The material that was in the tank is a listed hazardous waste (K087). On the day of the inspection, there was coal tar decanter sludge inside the collapsed tanks and on the ground surrounding the tanks. The facility has not initiated the remediation of these tank failures.

The purpose of this sampling survey was to collect representative samples of the coal tar decanter sludge inside and outside the tanks. The samples were analyzed for volatile organics (total and TCLP) and non-volatile organics (total and TCLP). Analytical results will be used to support potential RCRA violations for failure to report and respond to this release of a listed hazardous waste.

Survey Participants

U.S. Environmental Protection Agency

Leonard Grossman, Environmental Scientist
Stephen Hale, Environmental Protection Specialist
Robert Morrell, Geologist

New York State Department of Environmental Conservation

Tom Corbett, Inspector

Tonawanda Coke Corporation

Mark Kamholz, Environmental Control Manager

Site Description

Tonawanda Coke Corporation is located at 3875 River Road in Tonawanda, New York. The facility is a producer of foundry coke for the steel industry. There are four Barrett Tanks (two large, two small) that are used to store coal tar decanter sludge from coking operations. Approximately two years ago, the two large tanks collapsed during a fire and the contents were spilled onto the surrounding property. The two small tanks have

remained intact. There is a large coke pile north of the tanks and a large coal pile located just south of the tanks.

EPA Sampling Activities

The EPA sampling team collected eight samples of the coal tar decanter sludge. Six samples were collected outside the left burnt tank and two samples were collected inside the left burnt tank. All samples were collected at the surface using a dedicated polyethylene scoop and wearing Level C personal protection. The samples were black, tarry, and extremely viscous. All samples were analyzed for volatile organics (total and TCLP) and non-volatile organics (total and TCLP). The samples were placed in a cooler with wet ice and transported to the U.S. EPA Region II Laboratory in Edison, New Jersey.

Analytical Results

Table 1: Total Organics Analysis (mg/Kg)

Analyte	Left Burnt Tank #1	Left Burnt Tank #2	Left Burnt Tank #3	Left Burnt Tank #4	Left Burnt Tank #5	Left Burnt Tank #6	Left Burnt Tank #7	Left Burnt Tank #8
Naphthalene	59,000	38,000	56,000	53,000	41,000	70,000	81,000	60,000
2-Methyl Naphthalene	7,700	ND	8,100	7,600	5,600	8,300	5,900	8,600
Acenaphthalene	7,700	ND	ND	ND	ND	18,000	ND	13,000
Dibenzofuran	7,300	ND	6,800	6,800	6,400	9,000	6,500	9,800
Fluorene	11,000	8,000	10,000	9,300	8,500	13,000	8,200	13,000
Phenanthrene	35,000	28,000	34,000	32,000	29,000	45,000	35,000	47,000
Anthracene	8,200	6,000	ND	ND	6,100	10,000	6,000	9,400
Carbazole	ND	5,300						
Fluoranthene	23,000	19,000	23,000	22,000	20,000	33,000	25,000	33,000
Pyrene	17,000	14,000	16,000	15,000	15,000	24,000	20,000	24,000
Benzo(a)anthracene	7,100	5,800	7,100	6,500	5,900	9,900	6,600	10,000
Chrysene	7,100	ND	6,700	6,200	5,600	8,700	6,400	8,800
Benzo(b)fluoranthene	6,700	ND	6,400	6,100	ND	9,400	7,500	9,800
Benzo(a)pyrene	ND	ND	ND	ND	ND	8,500	6,600	8,500
Indeno(1,2,3-cd) Pyrene	ND	ND	ND	ND	ND	5,400		5,300
Benzene	94 L	82 L	ND	53	ND	170 L	400 L	140 L
Toluene	54 L	49 L	ND	47	ND	88 L	110 L	80 L
M+P-Xylene	ND	ND	ND	ND	ND	70	ND	57
Styrene	ND	ND	ND	ND	ND	54	ND	ND

ND – Not detected at or above the reporting limit.

L – The reported value may be biased low.

Table 2: TCLP Organics Analysis (mg/L)

Analyte	Left Burnt Tank #1	Left Burnt Tank #2	Left Burnt Tank #3	Left Burnt Tank #4	Left Burnt Tank #5	Left Burnt Tank #6	Left Burnt Tank #7	Left Burnt Tank #8	TCLP Regulatory Level
Pyridine	0.15	0.14	0.11 J	0.16	0.076	0.14	0.62	0.14	5.0
Cresol	6.0 K	6.0 K	9.9	6.2 K	3.9 K	10.0 K	7.5K	10.7 K	200.0
Nitrobenzene	0.15	0.13	0.23	0.16 L	0.074	0.17	0.14	0.16	2.0
2-Butanone	ND	ND	ND	0.12	0.13	ND	ND	ND	200.0
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.44	ND	0.5
Benzene	3.9	1.7	1.4	1.1	0.64	2.1	14 J	3.0	0.5

ND – Not detected at or above the reporting limit.

J – Estimated value.

K – The reported value may be biased high.

L – The reported value may be biased low.

It should be noted that Left Burnt Tank #4 is a duplicate sample of Left Burnt Tank #3. Only those analytes that were detected at or above the reporting limit are listed in the above tables. A complete list of analytes can be found in the attached Data Report.

Findings and Conclusions

TCLP analytical results indicate that all of the samples exceed the TCLP regulatory level for benzene (D018). Because the collapsed tanks contained coal tar decanter sludge from coking operations, the material in and around the tanks is considered a listed hazardous waste (K087).

Attachments

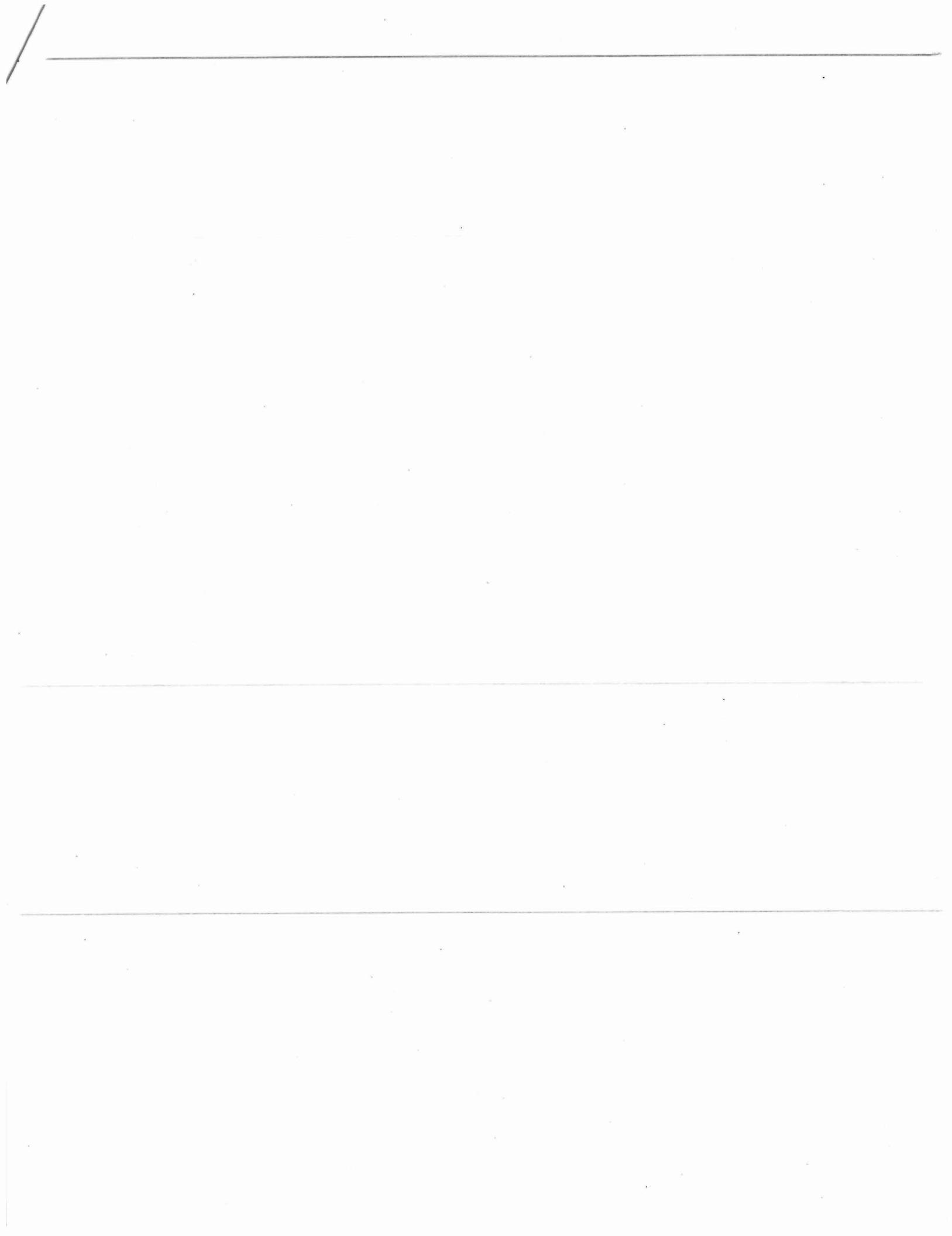
Sample Location Diagram

Photographs (#1 - #11)

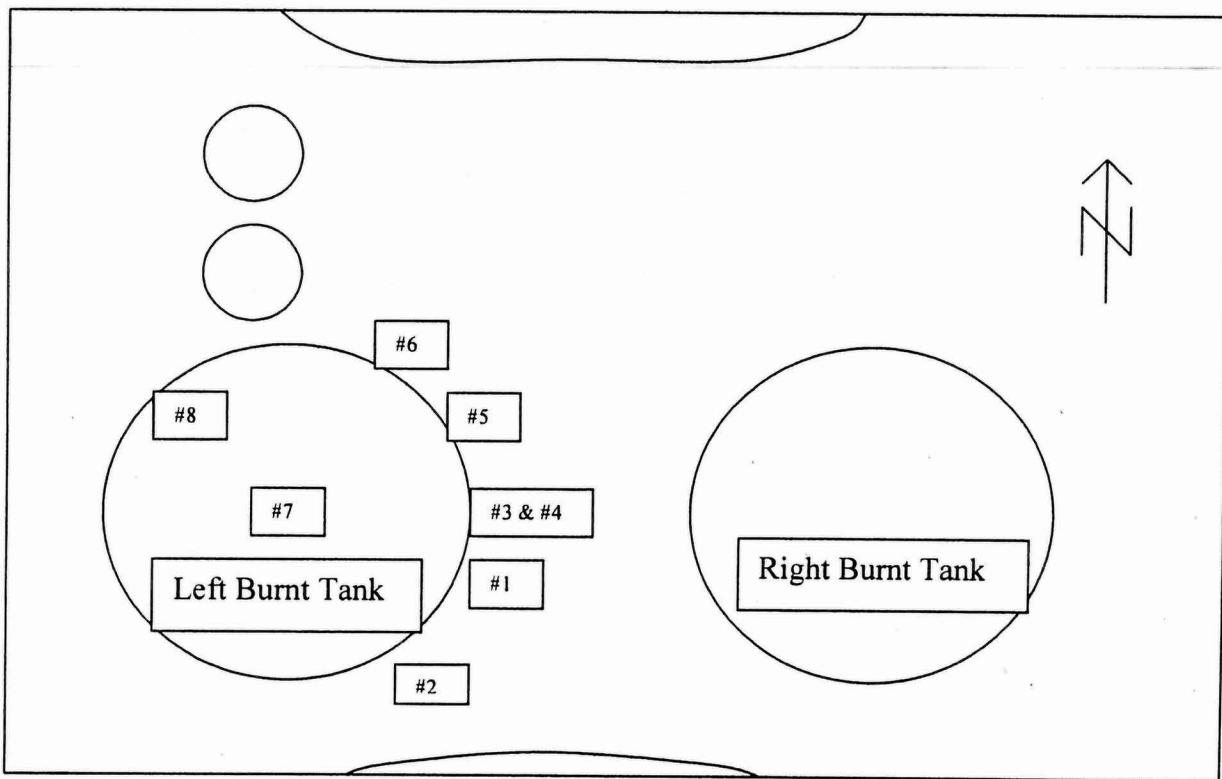
Data Report

Chain of Custody / Field Data Forms

Receipt for Samples



Sample Location Diagram
Tonawanda Coke Corporation
September 10, 2009



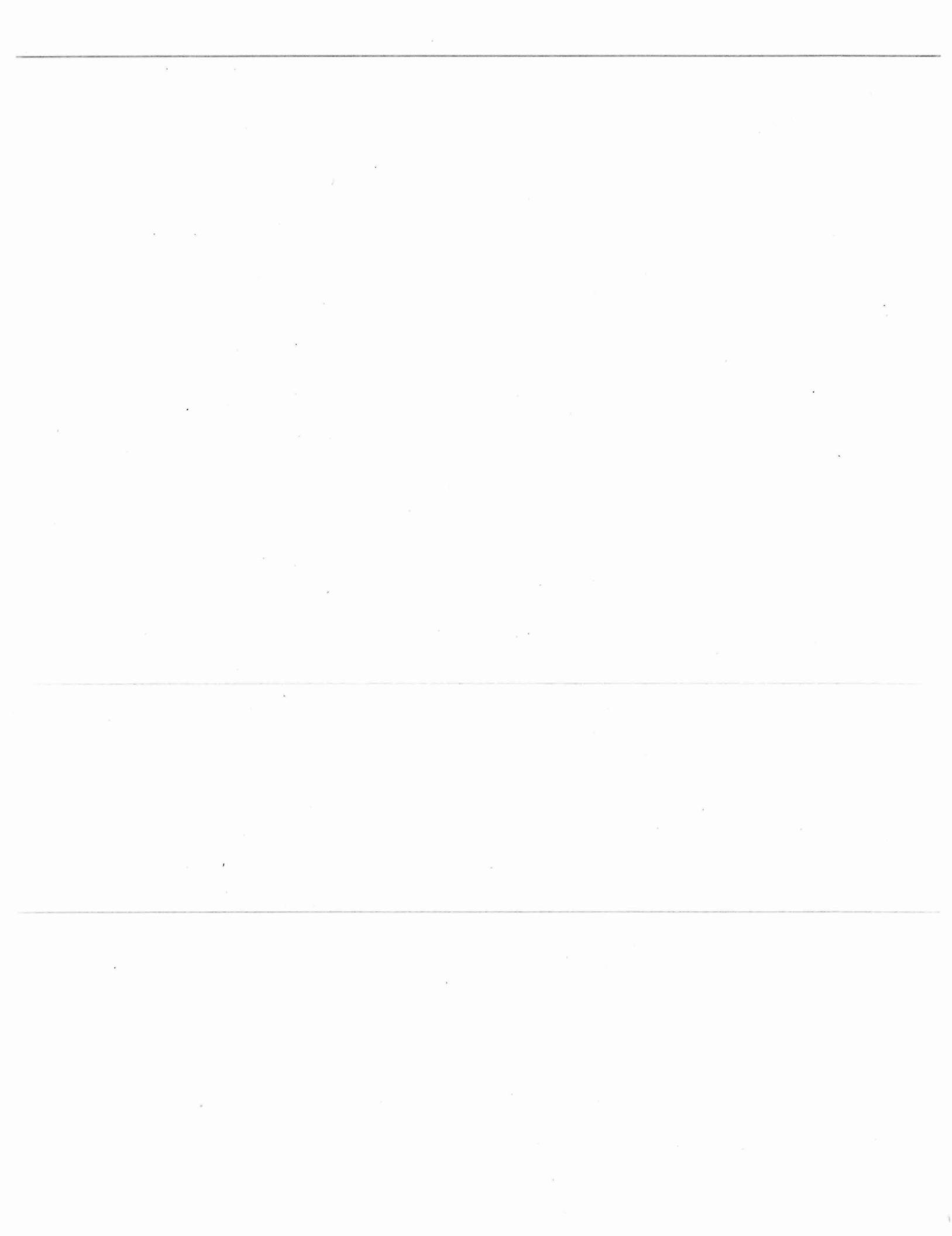


PHOTO LOG

Photo #1: View of the collapsed Right Burnt Tank looking northeast.



Photo #2: View of the collapsed Left Burnt Tank looking northwest.



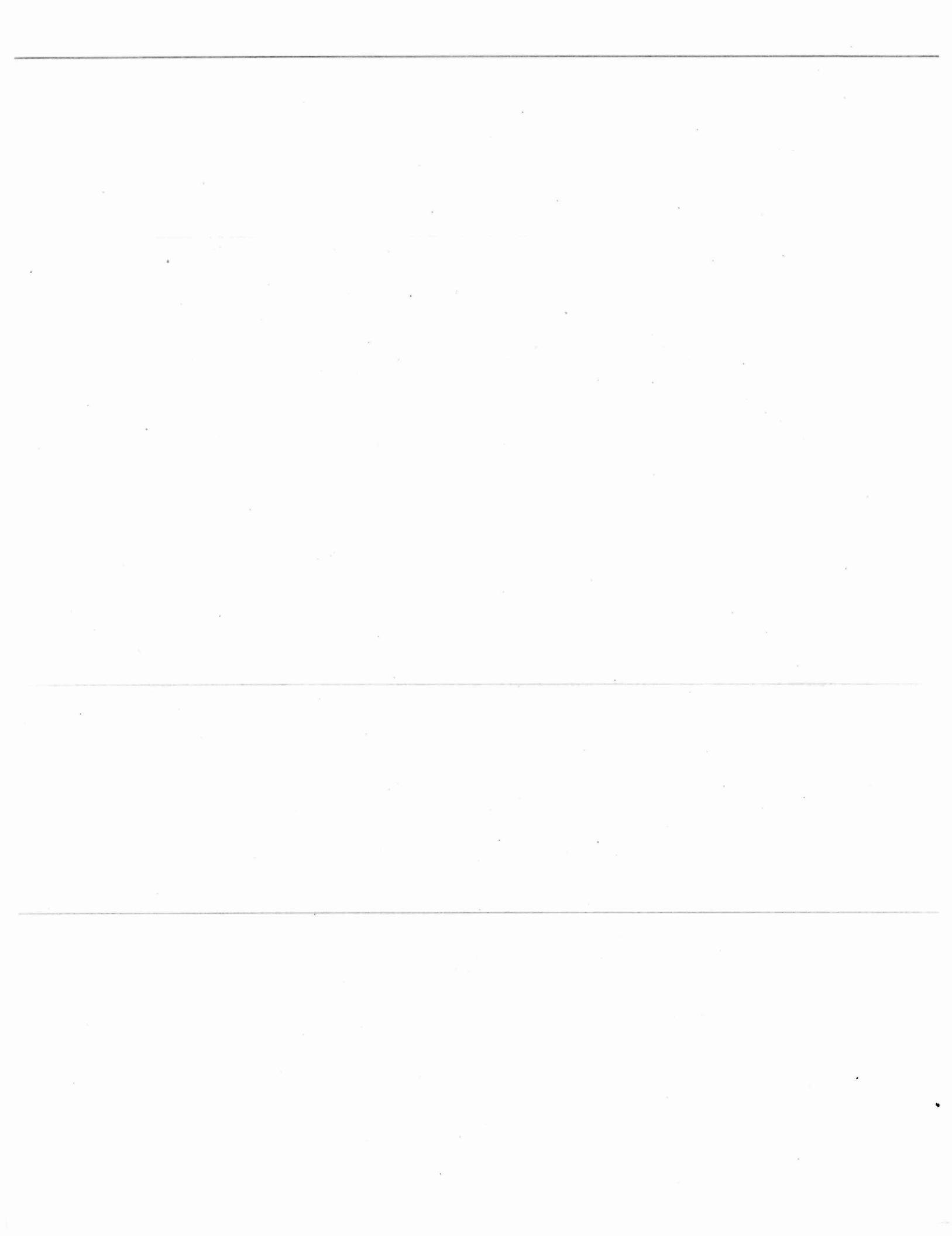


Photo #3: Sample location for Left Burnt Tank #1.

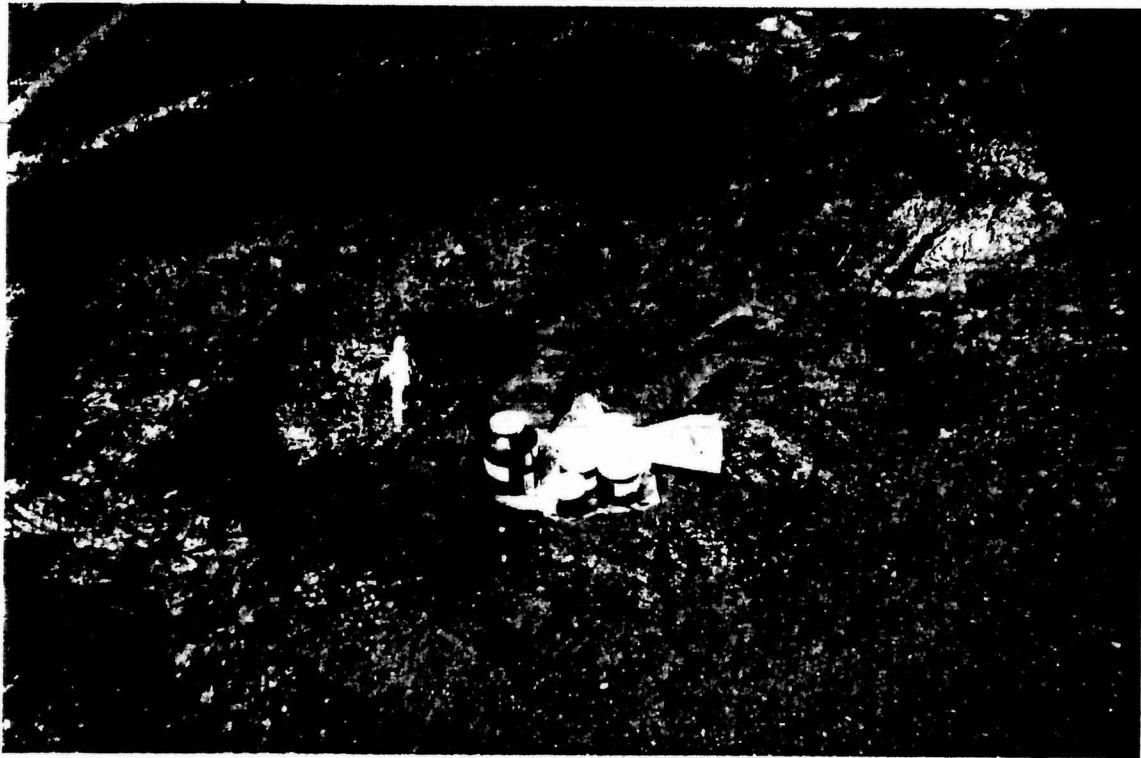


Photo #4: Sample location for Left Burnt Tank #2.



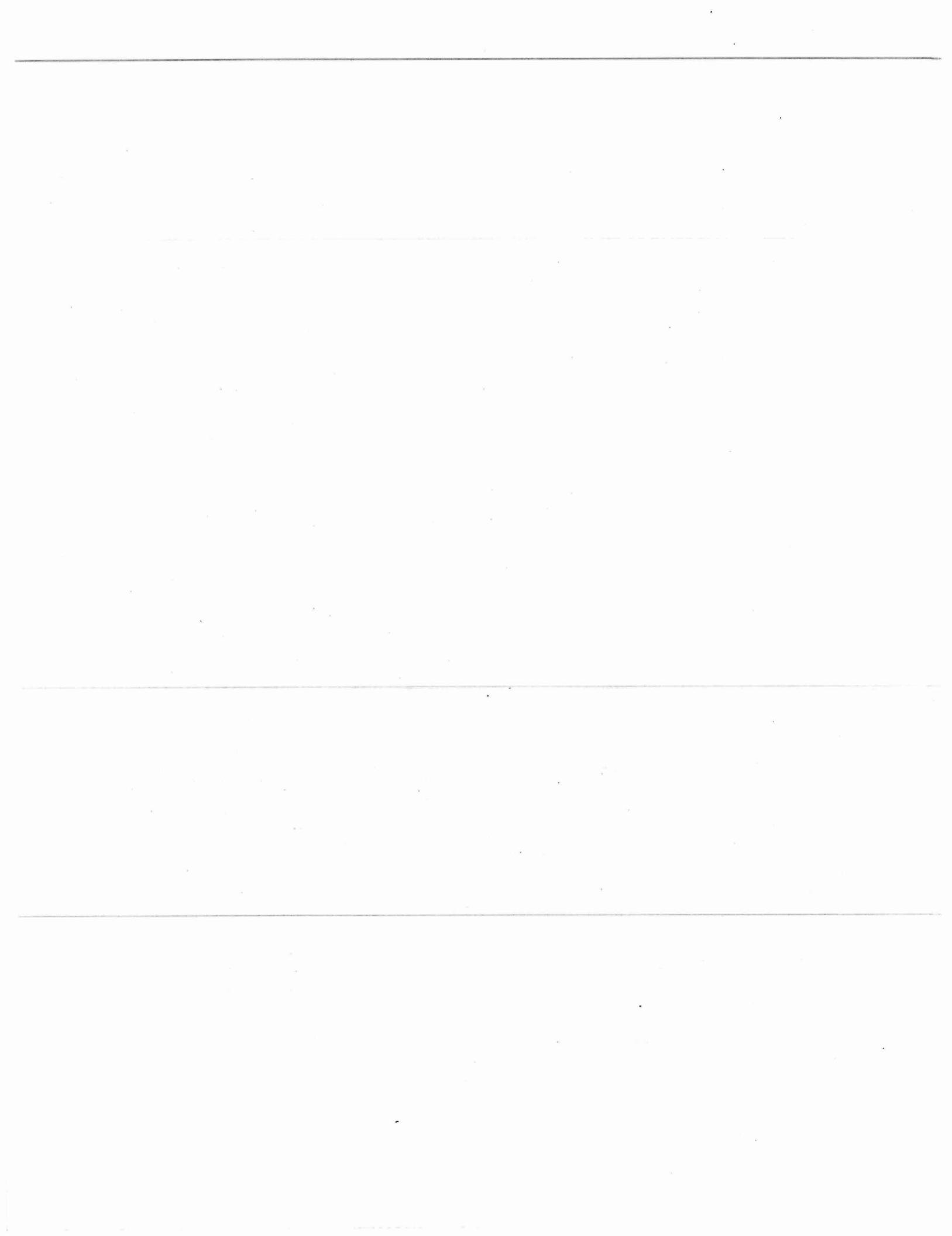


Photo #5: Sample location for Left Burnt Tank #3 and Left Burnt Tank #4.

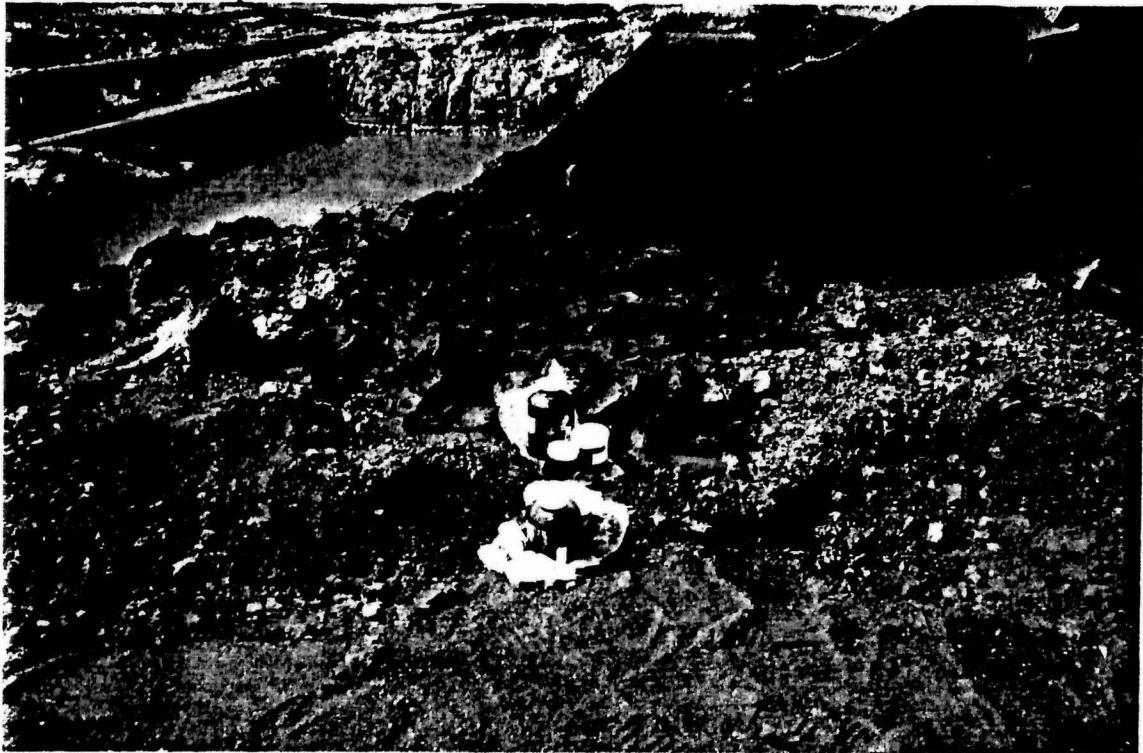


Photo #6: Sample location for Left Burnt Tank #5.



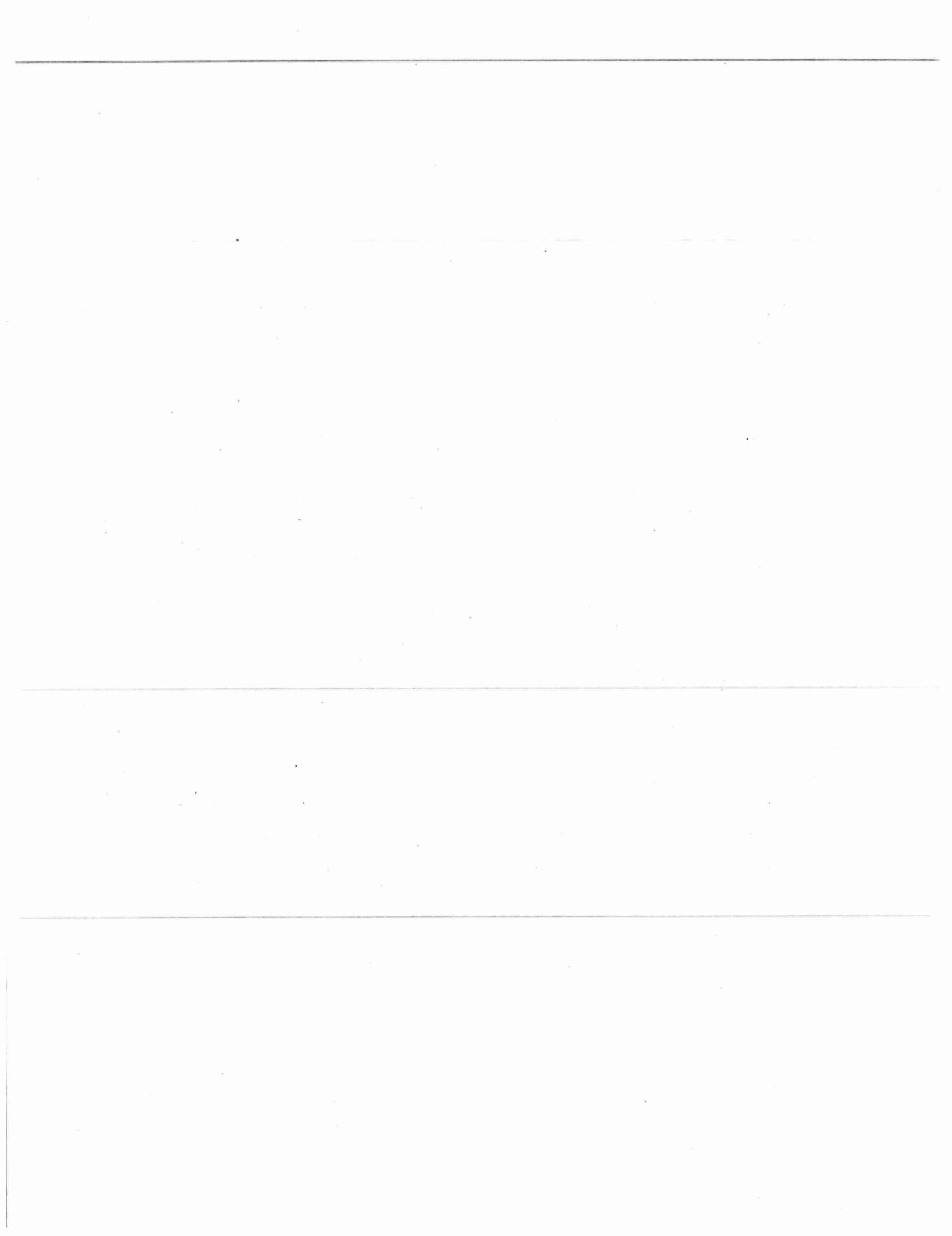
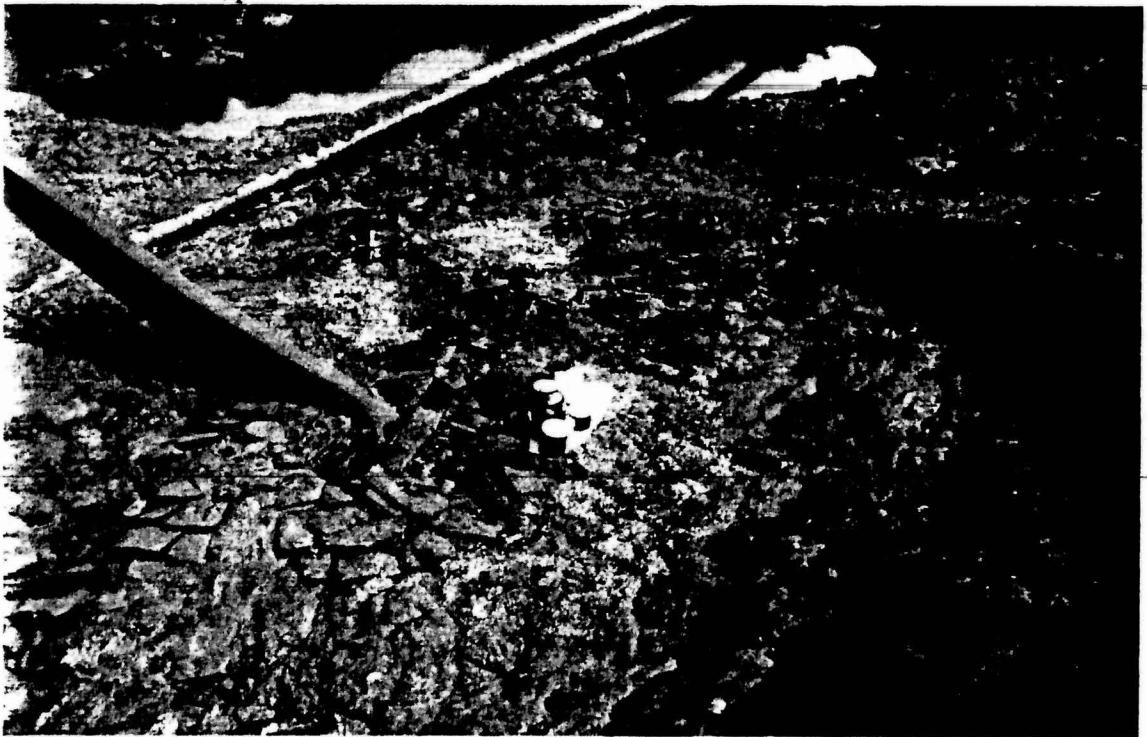


Photo #7: Sample location for Left Burnt Tank #6.



Photo #8: Sample location for Left Burnt Tank #7.



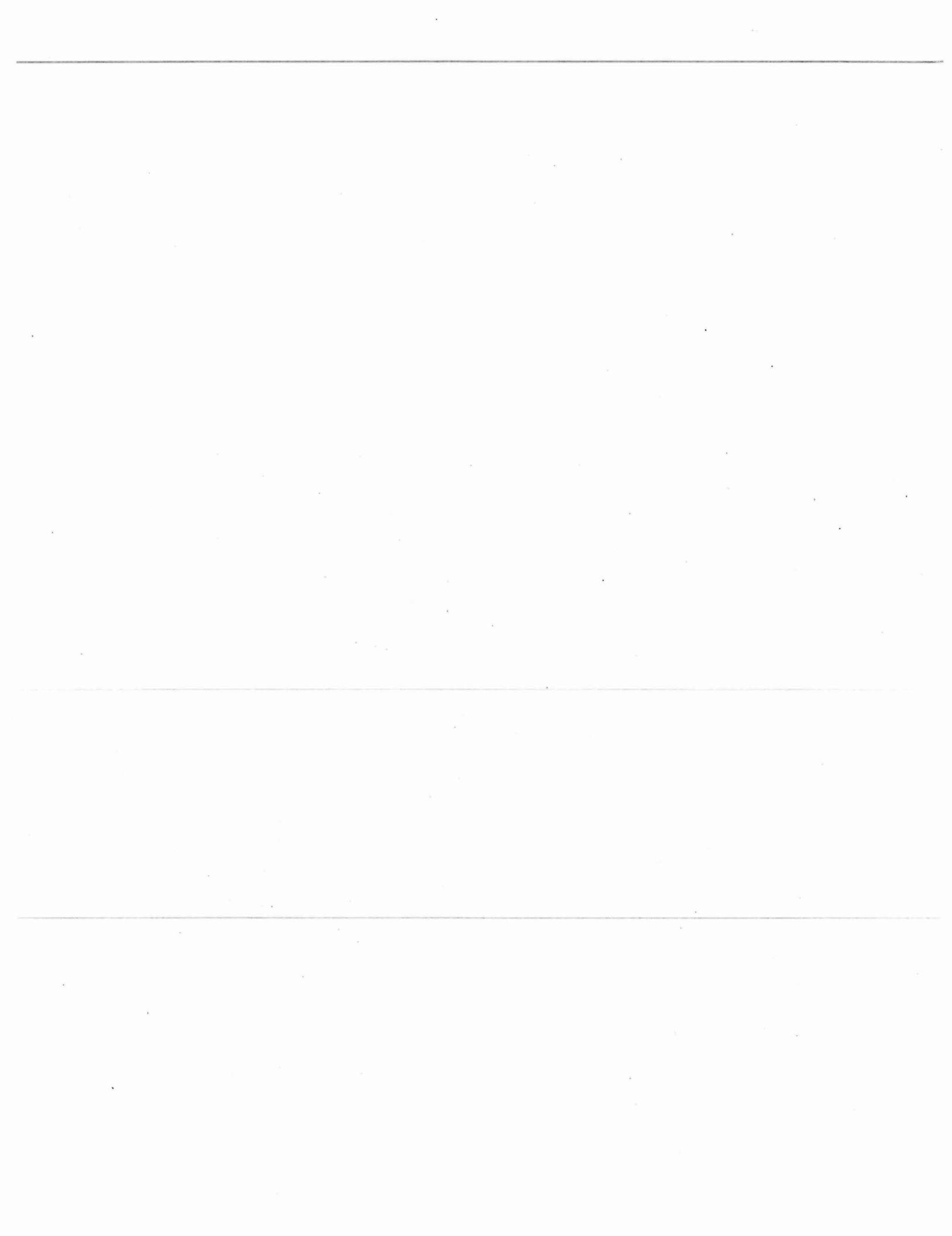


Photo #9: Sample location for Left Burnt Tank #8.



Photo #10: View inside the Left Burnt Tank.

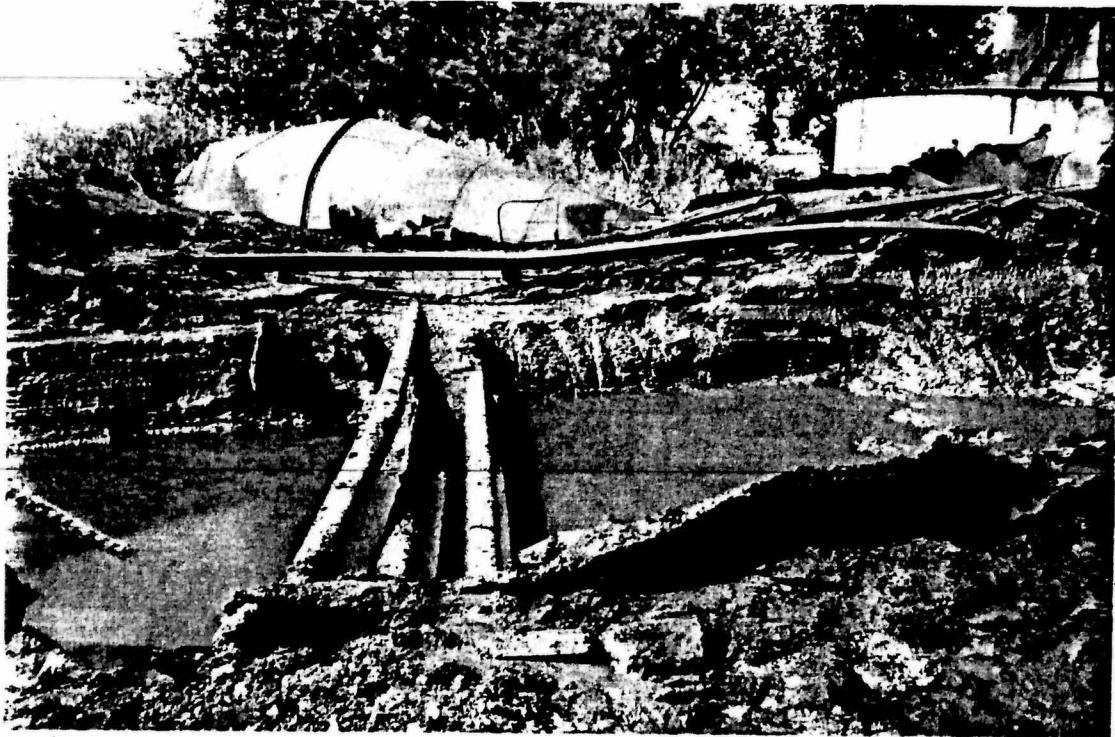




Photo #11: View inside the Right Burnt Tank.





Case Narrative:
Tonawanda Coke #09090018

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

Comment(s):

Total Analysis: The eight solid samples for this project were prepared and analyzed on a Total basis for Semi-Volatiles and Volatiles. The Total Analysis results are reported in "ug/kg" units for the Semi-Volatiles and Volatiles.

Toxicity Characteristic Leaching Procedure (TCLP) Analysis: The eight solid samples for this project were prepared using the TCLP procedure. The extracts were digested and analyzed for the TC regulated Semi-Volatiles and Volatiles. The TCLP extract results were reported in "mg/L" units for Semi-Volatiles and Volatiles.

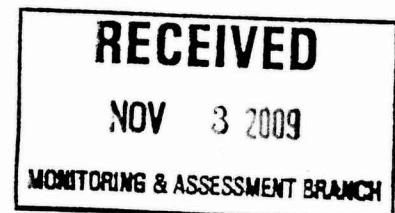
Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ-There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

VOC Analysis: Due to high analyte concentrations, dilutions for all samples were required. The Laboratory's standard reporting limit for TCLP extracts was raised in accordance with the dilution used. The reporting limits for all samples were still below the TC criterion for all analytes. Additionally, all samples run for total VOA analysis had raised reporting limits for all analytes based on the dilution run.

Semi-VOC Analysis: Dilutions were also required for both TCLP extracts and Semi-VOA extracts due to high analyte concentrations. The Laboratory's standard reporting limit for TCLP extracts was raised in accordance with the dilution used. The reporting limits for all samples were still below the TC criterion for all analyses. Additionally, all samples run for total Semi-VOA analysis had raised reporting limits for all analytes based on the dilution run. Due to initial calibration anomalies, the reporting levels for the total analysis of 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol and Hexachlorocyclopentadiene are also raised in the final reports.



Method(s):

All methods that are NELAC accredited in the Laboratory are noted with "NELAC" at the end of the method reference.

- TCLP Analysis (Semi-Volatiles and Metals):

Extraction: EPA SW-846 Method 1311 (TCLP Extraction) (NELAC)

Semi-Volatile Analysis, EPA Method 625 (SOP C-90; GC/MS Method (NELAC)

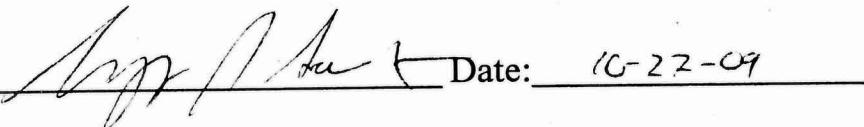
Volatile Organic Compounds Analysis, EPA Method 624 (SOP C-89; Purge & Trap GC/MS Method (NELAC)

- Total Analysis

Semi-Volatile Analysis, EPA Method 625 (SOP C-90; GC/MS Method (NELAC)

Volatile Organic Compounds Analysis, EPA Method 624 (SOP C-89; Purge & Trap GC/MS Method (NELAC)

Approval:



Date: 10-22-09



U.S. Environmental Protection Agency

Region 2 Laboratory

2890 Woodbridge Avenue

Edison, NJ 08837

Data Report: TONAWANDA COKE

Project Number: 09090018

Program: D307

Project Leader: BOB MORRELL

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
R	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05705

Field/Station ID: LEFT BURNT TANK #1
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
110-86-1	PYRIDINE	0.15		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U	mg/L
95-48-7	2-METHYLPHENOL	1.8		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	4.2	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011UL	mg/L
98-95-3	NITROBENZENE	0.15		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011UL	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
100-52-7	BENZALDEHYDE	---	6,600,000U	ug/Kg
108-95-2	PHENOL	---	6,600,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	6,600,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	6,600,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	6,600,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	6,600,000U	ug/Kg
98-86-2	ACETOPHENONE	---	6,600,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	6,600,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	6,600,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	6,600,000U	ug/Kg
98-95-3	NITROBENZENE	---	6,600,000U	ug/Kg
78-59-1	ISOPHORONE	---	6,600,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	6,600,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	6,600,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	6,600,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	6,600,000U	ug/Kg
91-20-3	NAPHTHALENE	59,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	6,600,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	6,600,000U	ug/Kg
105-60-2	CAPROLACTAM	---	6,600,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	6,600,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	7,700,000		ug/Kg
95-94-3	1,2,4,5-TETRACHLOROBENZENE	---	6,600,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	22,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	6,600,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	6,600,000U	ug/Kg
92-52-4	1,1'-BIPHENYL	---	6,600,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05705

Field/Station ID: LEFT BURNT TANK #1

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
91-58-7	2-CHLORONAPHTHALENE	---	6,600,000U	ug/Kg
88-74-4	2-NITROANILINE	---	6,600,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	6,600,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	7,700,000	ug/Kg	
606-20-2	2,6-DINITROTOLUENE	---	6,600,000U	ug/Kg
99-09-2	3-NITROANILINE	---	6,600,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	6,600,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	66,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	22,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	7,300,000	ug/Kg	
121-14-2	2,4-DINITROTOLUENE	---	6,600,000U	ug/Kg
86-73-7	FLUORENE	11,000,000	ug/Kg	
84-66-2	DIETHYLPHthalate	---	6,600,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENylether	---	6,600,000U	ug/Kg
100-01-6	4-NITROANILINE	---	6,600,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	6,600,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	6,600,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENylether	---	6,600,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	6,600,000U	ug/Kg
1912-24-9	ATRAZINE	---	6,600,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	22,000,000U	ug/Kg
85-01-8	PHENANTHRENE	35,000,000	ug/Kg	
120-12-7	ANTHRACENE	8,200,000	ug/Kg	
86-74-8	CARBAZOLE	---	6,600,000U	ug/Kg
84-74-2	DI-N-BUTYLPHthalate	---	6,600,000U	ug/Kg
206-44-0	FLUORANTHENE	23,000,000	ug/Kg	
129-00-0	PYRENE	17,000,000	ug/Kg	
85-68-7	BUTYLBENZYLPHthalate	---	6,600,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	6,600,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	7,100,000	ug/Kg	
218-01-9	CHRYSENE	7,100,000	ug/Kg	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	6,600,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	6,600,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	6,700,000	ug/Kg	
207-08-9	BENZO(K)FLUORANTHENE	---	6,600,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	6,600,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	6,600,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	6,600,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

Page 3 of 33



Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05705 Field/Station ID: LEFT BURNT TANK #1
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
191-24-2	BENZO(G,H,I)PERYLENE	---	6,600,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	6,600,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-71-8	DICHLORODIFLUOROMETHANE	---	40,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	40,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	40,000U	ug/Kg
74-83-9	BROMOMETHANE	---	40,000U	ug/Kg
75-00-3	CHLOROETHANE	---	40,000U	ug/Kg
75-69-4	TRICHLOROFUOROMETHANE	---	40,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	40,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	40,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	40,000U	ug/Kg
67-64-1	ACETONE	---	81,000U	ug/Kg
79-20-9	METHYL ACETATE	---	40,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	40,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	40,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	40,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	40,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	40,000U	ug/Kg
78-93-3	2-BUTANONE	---	81,000U	ug/Kg
67-66-3	CHLOROFORM	---	40,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	40,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	40,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	40,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	40,000U	ug/Kg
71-43-2	BENZENE	94,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	40,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	40,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	40,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	40,000U L	ug/Kg
10061-01-5	CIS--1,3-DICHLOROPROPENE	---	40,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	81,000U L	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	40,000U L	ug/Kg
108-88-3	TOLUENE	54,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	40,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	40,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05705

Field/Station ID: LEFT BURNT TANK #1

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
591-78-6	2-HEXANONE	---	81,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	40,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	40,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	40,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	40,000U	ug/Kg
1330-20-7	M+P-XYLENE	---	40,000U	ug/Kg
95-47-6	O-XYLENE	---	40,000U	ug/Kg
100-42-5	STYRENE	---	40,000U	ug/Kg
75-25-2	BROMOFORM	---	40,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	40,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	40,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	40,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	40,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	40,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	40,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	81,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	81,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	40,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	3.9		mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L

U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05706

Field/Station ID: LEFT BURNT TANK #2

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	0.14		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U	mg/L
95-48-7	2-METHYLPHENOL	1.9		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	4.1	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U	mg/L
98-95-3	NITROBENZENE	0.13		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011U L	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
100-52-7	BENZALDEHYDE	---	5,700,000U	ug/Kg
108-95-2	PHENOL	---	5,700,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,700,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,700,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,700,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,700,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,700,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,700,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,700,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,700,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,700,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,700,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,700,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,700,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,700,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	5,700,000U	ug/Kg
91-20-3	NAPHTHALENE	38,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	5,700,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,700,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,700,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,700,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	---	5,700,000U	ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,700,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05706

Field/Station ID: LEFT BURNT TANK #2

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	19,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,700,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,700,000U	ug/Kg
92-52-4	1,1'-BIPHENYL	---	5,700,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,700,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,700,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,700,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	5,700,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,700,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,700,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,700,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	57,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	19,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	---	5,700,000U	ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,700,000U	ug/Kg
86-73-7	FLUORENE	8,000,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,700,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,700,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,700,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	19,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,700,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,700,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,700,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,700,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	19,000,000U	ug/Kg
85-01-8	PHENANTHRENE	28,000,000		ug/Kg
120-12-7	ANTHRACENE	6,000,000		ug/Kg
86-74-8	CARBAZOLE	---	5,700,000U	ug/Kg
84-74-2	DI-N-BUTYLPHthalate	---	5,700,000U	ug/Kg
206-44-0	FLUORANTHENE	19,000,000		ug/Kg
129-00-0	PYRENE	14,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,700,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,700,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	5,800,000		ug/Kg
218-01-9	CHRYSENE	---	5,700,000U	ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,700,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,700,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	---	5,700,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

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Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05706 Field/Station ID: LEFT BURNT TANK #2
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
207-08-9	BENZO(K)FLUORANTHENE	---	5,700,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	5,700,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	5,700,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,700,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,700,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,700,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-71-8	DICHLORODIFLUOROMETHANE	---	29,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	29,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	29,000U	ug/Kg
74-83-9	BROMOMETHANE	---	29,000U	ug/Kg
75-00-3	CHLOROETHANE	---	29,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	29,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	29,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	29,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	29,000U	ug/Kg
67-64-1	ACETONE	---	58,000U	ug/Kg
79-20-9	METHYL ACETATE	---	29,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	29,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	29,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	29,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	29,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	29,000U	ug/Kg
78-93-3	2-BUTANONE	---	58,000U	ug/Kg
67-66-3	CHLOROFORM	---	29,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	29,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	29,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	29,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	29,000U	ug/Kg
71-43-2	BENZENE	82,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	29,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	29,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	29,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	29,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	29,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	58,000U L	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05706

Field/Station ID: LEFT BURNT TANK #2

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	29,000U L	ug/Kg
108-88-3	TOLUENE	49,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	29,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	29,000U	ug/Kg
591-78-6	2-HEXANONE	---	58,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	29,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	29,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	29,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	29,000U	ug/Kg
1330-20-7	M+P-XYLENE	36,000		ug/Kg
95-47-6	O-XYLENE	---	29,000U	ug/Kg
100-42-5	STYRENE	---	29,000U	ug/Kg
75-25-2	BROMOFORM	---	29,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	29,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	29,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	29,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	29,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	29,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	29,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	58,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	58,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	29,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	1.7		mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05707 Field/Station ID: LEFT BURNT TANK #3
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
110-86-1	PYRIDINE	0.11	J	mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.010U J	mg/L
95-48-7	2-METHYLPHENOL	3.0		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	6.9		mg/L
67-72-1	HEXACHLOROETHANE	---	0.010U J	mg/L
98-95-3	NITROBENZENE	0.23		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.010U J	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.010U J	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.010U J	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.010U J	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.010U J	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.010U J	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
100-52-7	BENZALDEHYDE	---	5,800,000U	ug/Kg
108-95-2	PHENOL	---	5,800,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,800,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,800,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,800,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,800,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,800,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,800,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,800,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,800,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,800,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,800,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,800,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,800,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,800,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	5,800,000U	ug/Kg
91-20-3	NAPHTHALENE	56,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	5,800,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,800,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,800,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,800,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	8,100,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,800,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	19,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,800,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,800,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05707

Field/Station ID: LEFT BURNT TANK #3
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
92-52-4	1,1'-BIPHENYL	---	5,800,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,800,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,800,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,800,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	5,800,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,800,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,800,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,800,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	58,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	19,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	6,800,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,800,000U	ug/Kg
86-73-7	FLUORENE	10,000,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,800,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,800,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,800,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	19,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,800,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,800,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,800,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,800,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	19,000,000U	ug/Kg
85-01-8	PHENANTHRENE	34,000,000		ug/Kg
120-12-7	ANTHRACENE	---	5,800,000U	ug/Kg
86-74-8	CARBAZOLE	---	5,800,000U	ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	5,800,000U	ug/Kg
206-44-0	FLUORANTHENE	23,000,000		ug/Kg
129-00-0	PYRENE	16,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,800,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,800,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	7,100,000		ug/Kg
218-01-9	CHRYSENE	6,700,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,800,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,800,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	6,400,000		ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	5,800,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	5,800,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	5,800,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05707

Field/Station ID: LEFT BURNT TANK #3

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,800,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,800,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,800,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-71-8	DICHLORODIFLUOROMETHANE	---	47,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	47,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	47,000U	ug/Kg
74-83-9	BROMOMETHANE	---	47,000U	ug/Kg
75-00-3	CHLOROETHANE	---	47,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	47,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	47,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	47,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	47,000U	ug/Kg
67-64-1	ACETONE	---	95,000U	ug/Kg
79-20-9	METHYL ACETATE	---	47,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	47,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	47,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	47,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	47,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	47,000U	ug/Kg
78-93-3	2-BUTANONE	---	95,000U	ug/Kg
67-66-3	CHLOROFORM	---	47,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	47,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	47,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	47,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	47,000U	ug/Kg
71-43-2	BENZENE	---	47,000U L	ug/Kg
79-01-6	TRICHLOROETHENE	---	47,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	47,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	47,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	47,000U L	ug/Kg
10061-01-5	CIS--1,3-DICHLOROPROPENE	---	47,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	95,000U L	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	47,000U L	ug/Kg
108-88-3	TOLUENE	---	47,000U L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	47,000U	ug/Kg

An explanation of Remark Codes

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05707

Field/Station ID: LEFT BURNT TANK #3
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
127-18-4	TETRACHLOROETHENE	---	47,000U	ug/Kg
591-78-6	2-HEXANONE	---	95,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	47,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	47,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	47,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	47,000U	ug/Kg
1330-20-7	M+P-XYLENE	---	47,000U	ug/Kg
95-47-6	O-XYLENE	---	47,000U	ug/Kg
100-42-5	STYRENE	---	47,000U	ug/Kg
75-25-2	BROMOFORM	---	47,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	47,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	47,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	47,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	47,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	47,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	47,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	95,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	95,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	47,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	1.4		mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05708

Field/Station ID: LEFT BURNT TANK #4
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	0.16		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U	mg/L
95-48-7	2-METHYLPHENOL	1.9		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	4.3	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U	mg/L
98-95-3	NITROBENZENE	0.16	L	mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011U	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
100-52-7	BENZALDEHYDE	---	6,000,000U	ug/Kg
108-95-2	PHENOL	---	6,000,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	6,000,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	6,000,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	6,000,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	6,000,000U	ug/Kg
98-86-2	ACETOPHENONE	---	6,000,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	6,000,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	6,000,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	6,000,000U	ug/Kg
98-95-3	NITROBENZENE	---	6,000,000U	ug/Kg
78-59-1	ISOPHORONE	---	6,000,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	6,000,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	6,000,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	6,000,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	6,000,000U	ug/Kg
91-20-3	NAPHTHALENE	53,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	6,000,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	6,000,000U	ug/Kg
105-60-2	CAPROLACTAM	---	6,000,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	6,000,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	7,600,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	6,000,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05708

Field/Station ID: LEFT BURNT TANK #4

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	20,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	6,000,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	6,000,000U	ug/Kg
92-52-4	1,1'-BIPHENYL	---	6,000,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	6,000,000U	ug/Kg
88-74-4	2-NITROANILINE	---	6,000,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	6,000,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	6,000,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	6,000,000U	ug/Kg
99-09-2	3-NITROANILINE	---	6,000,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	6,000,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	60,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	20,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	6,800,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	6,000,000U	ug/Kg
86-73-7	FLUORENE	9,300,000		ug/Kg
84-66-2	DIETHYLPHTHALATE	---	6,000,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	6,000,000U	ug/Kg
100-01-6	4-NITROANILINE	---	6,000,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	20,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	6,000,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	6,000,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	6,000,000U	ug/Kg
1912-24-9	ATRAZINE	---	6,000,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	20,000,000U	ug/Kg
85-01-8	PHENANTHRENE	32,000,000		ug/Kg
120-12-7	ANTHRACENE	---	6,000,000U	ug/Kg
86-74-8	CARBAZOLE	---	6,000,000U	ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	6,000,000U	ug/Kg
206-44-0	FLUORANTHENE	22,000,000		ug/Kg
129-00-0	PYRENE	15,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHTHALATE	---	6,000,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	6,000,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	6,500,000		ug/Kg
218-01-9	CHRYSENE	6,200,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	6,000,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	6,000,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	6,100,000		ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05708 Field/Station ID: LEFT BURNT TANK #4
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Codes</u>	<u>Units</u>
207-08-9	BENZO(K)FLUORANTHENE	---	6,000,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	6,000,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	6,000,000U	ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	6,000,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	6,000,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	6,000,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Codes</u>	<u>Units</u>
75-71-8	DICHLORODIFLUOROMETHANE	---	43,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	43,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	43,000U	ug/Kg
74-83-9	BROMOMETHANE	---	43,000U	ug/Kg
75-00-3	CHLOROETHANE	---	43,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	43,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	43,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	43,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	43,000U	ug/Kg
67-64-1	ACETONE	---	86,000U	ug/Kg
79-20-9	METHYL ACETATE	---	43,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	43,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	43,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	43,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	43,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	43,000U	ug/Kg
78-93-3	2-BUTANONE	---	86,000U	ug/Kg
67-66-3	CHLOROFORM	---	43,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	43,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	43,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	43,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	43,000U	ug/Kg
71-43-2	BENZENE	53,000		ug/Kg
79-01-6	TRICHLOROETHENE	---	43,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	43,000U	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	43,000U	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	43,000U	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	43,000U	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	86,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05708

Field/Station ID: LEFT BURNT TANK #4

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	43,000U	ug/Kg
108-88-3	TOLUENE	47,000		ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	43,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	43,000U	ug/Kg
591-78-6	2-HEXANONE	---	86,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	43,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	43,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	43,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	43,000U	ug/Kg
1330-20-7	M+P-XYLENE	---	43,000U	ug/Kg
95-47-6	O-XYLENE	---	43,000U	ug/Kg
100-42-5	STYRENE	---	43,000U	ug/Kg
75-25-2	BROMOFORM	---	43,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	43,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	43,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	43,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	43,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	43,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	43,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	86,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	86,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	43,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	0.12		mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	1.1		mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05709

Field/Station ID: LEFT BURNT TANK #5

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
110-86-1	PYRIDINE	0.076		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U	mg/L
95-48-7	2-METHYLPHENOL	1.0		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	2.9	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U	mg/L
98-95-3	NITROBENZENE	0.074		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011UL	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
100-52-7	BENZALDEHYDE	---	5,500,000U	ug/Kg
108-95-2	PHENOL	---	5,300,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,500,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,500,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,500,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,500,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,500,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,500,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,500,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,500,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,500,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,500,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,500,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,500,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,500,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	41,000,000		ug/Kg
91-20-3	NAPHTHALENE	---	5,500,000U	ug/Kg
106-47-8	4-CHLOROANILINE	---	5,500,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,500,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,500,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,500,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	5,600,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,500,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	18,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,500,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,500,000U	ug/Kg



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05709

Field/Station ID: LEFT BURNT TANK #5

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
92-52-4	1,1'-BIPHENYL	---	5,500,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,500,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,500,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,500,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	5,500,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,500,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,500,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,500,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	55,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	18,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	6,400,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,500,000U	ug/Kg
86-73-7	FLUORENE	8,500,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,500,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,500,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,500,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	18,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,500,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,500,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,500,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,500,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	18,000,000U	ug/Kg
85-01-8	PHENANTHRENE	29,000,000		ug/Kg
120-12-7	ANTHRACENE	6,100,000		ug/Kg
86-74-8	CARBAZOLE	---	5,500,000U	ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	5,500,000U	ug/Kg
206-44-0	FLUORANTHENE	20,000,000		ug/Kg
129-00-0	PYRENE	15,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,500,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,500,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	5,900,000		ug/Kg
218-01-9	CHRYSENE	5,600,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,500,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,500,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	---	5,500,000U	ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	5,500,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	---	5,500,000U	ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	5,500,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05709

Field/Station ID: LEFT BURNT TANK #5
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,500,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,500,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,500,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
75-71-8	DICHLORODIFLUOROMETHANE	---	36,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	36,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	36,000U	ug/Kg
74-83-9	BROMOMETHANE	---	36,000U	ug/Kg
75-00-3	CHLOROETHANE	---	36,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	36,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	36,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	36,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	36,000U	ug/Kg
67-64-1	ACETONE	---	73,000U	ug/Kg
79-20-9	METHYL ACETATE	---	36,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	36,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	36,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	36,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	36,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	36,000U	ug/Kg
78-93-3	2-BUTANONE	---	73,000U	ug/Kg
67-66-3	CHLOROFORM	---	36,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	36,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	36,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	36,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	36,000U	ug/Kg
71-43-2	BENZENE	---	36,000U L	ug/Kg
79-01-6	TRICHLOROETHENE	---	36,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	36,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	36,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	36,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	36,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	73,000U L	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	36,000U L	ug/Kg
108-88-3	TOLUENE	---	36,000U L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	36,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05709 Field/Station ID: LEFT BURNT TANK #5
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
127-18-4	TETRACHLOROETHENE	---	36,000U	ug/Kg
591-78-6	2-HEXANONE	---	73,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	36,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	36,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	36,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	36,000U	ug/Kg
1330-20-7	M+P-XYLENE	---	36,000U	ug/Kg
95-47-6	O-XYLENE	---	36,000U	ug/Kg
100-42-5	STYRENE	---	36,000U	ug/Kg
75-25-2	BROMOFORM	---	36,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	36,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	36,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	36,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	36,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	36,000U	ug/Kg
96-12-8	1,2-DIBromo-3-CHLOROPROPANE	---	36,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	73,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	73,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	36,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	0.13		mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	0.64		mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L

U.S. EPA Region 2 Laboratory
Data Report



Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05710

Field/Station ID: LEFT BURNT TANK #6

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
110-86-1	PYRIDINE	0.14		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U	mg/L
95-48-7	2-METHYLPHENOL	3.1		mg/L
13-19-77-3	3& 4-METHYLPHENOL	6.9	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U	mg/L
98-95-3	NITROBENZENE	0.17		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011UL	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
100-52-7	BENZALDEHYDE	---	5,300,000U	ug/Kg
108-95-2	PHENOL	---	5,300,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,300,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,300,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,300,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,300,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,300,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,300,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,300,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,300,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,300,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,300,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,300,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,300,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,300,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	5,300,000U	ug/Kg
91-20-3	NAPHTHALENE	70,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	5,300,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,300,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,300,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,300,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	8,300,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,300,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05710 Field/Station ID: LEFT BURNT TANK #6
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	18,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,300,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,300,000U	ug/Kg
92-52-4	1,1'-BIPHENYL	---	5,300,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,300,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,300,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,300,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	18,000,000		ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,300,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,300,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,300,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	53,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	18,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	9,000,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,300,000U	ug/Kg
86-73-7	FLUORENE	13,000,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,300,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,300,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,300,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	18,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,300,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,300,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,300,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,300,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	18,000,000U	ug/Kg
85-01-8	PHENANTHRENE	45,000,000		ug/Kg
120-12-7	ANTHRACENE	10,000,000		ug/Kg
86-74-8	CARBAZOLE	---	5,300,000U	ug/Kg
84-74-2	DI-N-BUTYLPHthalate	---	5,300,000U	ug/Kg
206-44-0	FLUORANTHENE	33,000,000		ug/Kg
129-00-0	PYRENE	24,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,300,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,300,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	9,900,000		ug/Kg
218-01-9	CHRYSENE	8,700,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,300,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,300,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	9,400,000		ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05710 Field/Station ID: LEFT BURNT TANK #6
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
207-08-9	BENZO(K)FLUORANTHENE	---	5,300,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	8,500,000		ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	5,400,000		ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,300,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,300,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,300,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
75-71-8	DICHLORODIFLUOROMETHANE	---	29,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	29,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	29,000U	ug/Kg
74-83-9	BROMOMETHANE	---	29,000U	ug/Kg
75-00-3	CHLOROETHANE	---	29,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	29,000U J	ug/Kg
75-35-4	I,1-DICHLOROETHENE	---	29,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	29,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	29,000U	ug/Kg
67-64-1	ACETONE	---	59,000U	ug/Kg
79-20-9	METHYL ACETATE	---	29,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	29,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	29,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	29,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	29,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	29,000U	ug/Kg
78-93-3	2-BUTANONE	---	59,000U	ug/Kg
67-66-3	CHLOROFORM	---	29,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	29,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	29,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	29,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	29,000U	ug/Kg
71-43-2	BENZENE	170,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	29,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	29,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	29,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	29,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	29,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	59,000U L	ug/Kg



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05710

Field/Station ID: LEFT BURNT TANK #6

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	29,000U L	ug/Kg
108-88-3	TOLUENE	88,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	29,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	29,000U	ug/Kg
591-78-6	2-HEXANONE	---	59,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	29,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	29,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	29,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	29,000U	ug/Kg
1330-20-7	M+P-XYLENE	70,000	---	ug/Kg
95-47-6	O-XYLENE	---	29,000U	ug/Kg
100-42-5	STYRENE	54,000	---	ug/Kg
75-25-2	BROMOFORM	---	29,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	29,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	29,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	29,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	29,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	29,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	29,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	59,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	59,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	29,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	2.1	---	mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05711 Field/Station ID: LEFT BURNT TANK #7
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	0.62		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U J	mg/L
95-48-7	2-METHYLPHENOL	2.0		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	5.5	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U J	mg/L
98-95-3	NITROBENZENE	0.14		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011U J	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U J	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U J	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U J	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U J	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U J	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
100-52-7	BENZALDEHYDE	---	5,200,000U	ug/Kg
108-95-2	PHENOL	---	5,200,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,200,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,200,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,200,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,200,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,200,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,200,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,200,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,200,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,200,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,200,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,200,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,200,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,200,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	81,000,000		ug/Kg
91-20-3	NAPHTHALENE	---	5,200,000U	ug/Kg
106-47-8	4-CHLOROANILINE	---	5,200,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,200,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,200,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,200,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	5,900,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,200,000U	ug/Kg
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	17,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,200,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,200,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05711

Field/Station ID: LEFT BURNT TANK #7

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
92-52-4	1,1'-BIPHENYL	---	5,200,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,200,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,200,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,200,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	---	5,200,000U	ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,200,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,200,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,200,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	52,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	17,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	6,500,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,200,000U	ug/Kg
86-73-7	FLUORENE	8,200,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,200,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,200,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,200,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	17,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,200,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,200,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,200,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,200,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	17,000,000U	ug/Kg
85-01-8	PHENANTHRENE	35,000,000		ug/Kg
120-12-7	ANTHRACENE	6,000,000		ug/Kg
86-74-8	CARBAZOLE	---	5,200,000U	ug/Kg
84-74-2	DI-N-BUTYLPHthalate	---	5,200,000U	ug/Kg
206-44-0	FLUORANTHENE	25,000,000		ug/Kg
129-00-0	PYRENE	20,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,200,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,200,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	6,600,000		ug/Kg
218-01-9	CHRYSENE	6,400,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,200,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,200,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	7,500,000		ug/Kg
207-08-9	BENZO(K)FLUORANTHENE	---	5,200,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	6,600,000		ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	---	5,200,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

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Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05711 Field/Station ID: LEFT BURNT TANK #7
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,200,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,200,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,200,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-71-8	DICHLORODIFLUOROMETHANE	---	39,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	39,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	39,000U	ug/Kg
74-83-9	BROMOMETHANE	---	39,000U	ug/Kg
75-00-3	CHLOROETHANE	---	39,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	39,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	39,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	39,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	39,000U	ug/Kg
67-64-1	ACETONE	---	79,000U	ug/Kg
79-20-9	METHYL ACETATE	---	39,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	39,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	39,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	39,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	39,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	39,000U	ug/Kg
78-93-3	2-BUTANONE	---	79,000U	ug/Kg
67-66-3	CHLOROFORM	---	39,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	39,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	39,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	39,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	39,000U	ug/Kg
71-43-2	BENZENE	400,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	39,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	39,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	39,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	39,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	39,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	79,000U L	ug/Kg
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	39,000U L	ug/Kg
108-88-3	TOLUENE	110,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	39,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05711 Field/Station ID: LEFT BURNT TANK #7
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
127-18-4	TETRACHLOROETHENE	---	39,000U	ug/Kg
591-78-6	2-HEXANONE	---	79,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	39,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	39,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	39,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	39,000U	ug/Kg
1330-20-7	M+P-XYLENE	---	39,000U	ug/Kg
95-47-6	O-XYLENE	---	39,000U	ug/Kg
100-42-5	STYRENE	---	39,000U	ug/Kg
75-25-2	BROMOFORM	---	39,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	39,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	39,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	39,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	39,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	39,000U	ug/Kg
96-12-8	1,2-DIBromo-3-CHLOROPROPANE	---	39,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	79,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	79,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	39,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	0.44		mg/L
71-43-2	BENZENE	14	J	mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05712

Field/Station ID: LEFT BURNT TANK #8

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS TCLP LIST NAPL

CAS Number	Analyte Name	Result	Remark Codes	Units
110-86-1	PYRIDINE	0.14		mg/L
106-46-7	1,4-DICHLOROBENZENE	---	0.011U J	mg/L
95-48-7	2-METHYLPHENOL	3.1		mg/L
13-19-77-3	3&; 4-METHYLPHENOL	7.6	K	mg/L
67-72-1	HEXACHLOROETHANE	---	0.011U J	mg/L
98-95-3	NITROBENZENE	0.16		mg/L
87-68-3	HEXACHLOROBUTADIENE	---	0.011U J	mg/L
88-06-2	2,4,6-TRICHLOROPHENOL	---	0.011U J	mg/L
95-95-4	2,4,5-TRICHLOROPHENOL	---	0.011U J	mg/L
121-14-2	2,4-DINITROTOLUENE	---	0.011U J	mg/L
118-74-1	HEXACHLOROBENZENE	---	0.011U J	mg/L
87-86-5	PENTACHLOROPHENOL	---	0.011U J	mg/L

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
100-52-7	BENZALDEHYDE	---	5,200,000U	ug/Kg
108-95-2	PHENOL	---	5,200,000U	ug/Kg
111-44-4	BIS(2-CHLOROETHYL)ETHER	---	5,200,000U	ug/Kg
95-57-8	2-CHLOROPHENOL	---	5,200,000U	ug/Kg
95-48-7	2-METHYLPHENOL	---	5,200,000U	ug/Kg
108-60-1	2,2'-OXYBIS(1-CHLOROPROPANE)	---	5,200,000U	ug/Kg
98-86-2	ACETOPHENONE	---	5,200,000U	ug/Kg
106-44-5	4-METHYLPHENOL	---	5,200,000U	ug/Kg
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	---	5,200,000U	ug/Kg
67-72-1	HEXACHLOROETHANE	---	5,200,000U	ug/Kg
98-95-3	NITROBENZENE	---	5,200,000U	ug/Kg
78-59-1	ISOPHORONE	---	5,200,000U	ug/Kg
88-75-5	2-NITROPHENOL	---	5,200,000U	ug/Kg
105-67-9	2,4-DIMETHYLPHENOL	---	5,200,000U	ug/Kg
111-91-1	BIS(-2-CHLOROETHOXY)METHANE	---	5,200,000U	ug/Kg
120-83-2	2,4-DICHLOROPHENOL	---	5,200,000U	ug/Kg
91-20-3	NAPHTHALENE	60,000,000		ug/Kg
106-47-8	4-CHLOROANILINE	---	5,200,000U	ug/Kg
87-68-3	HEXACHLOROBUTADIENE	---	5,200,000U	ug/Kg
105-60-2	CAPROLACTAM	---	5,200,000U	ug/Kg
59-50-7	4-CHLORO-3-METHYLPHENOL	---	5,200,000U	ug/Kg
91-57-6	2-METHYL NAPHTHALENE	8,600,000		ug/Kg
95-94-3	1,2,4,5- TETRACHLOROBENZENE	---	5,200,000U	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05712

Field/Station ID: LEFT BURNT TANK #8

Date Received: 9/14/2009

Matrix: Sludge

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	17,000,000U	ug/Kg
88-06-2	2,4,6-TRICHLOROPHENOL	---	5,200,000U	ug/Kg
95-95-4	2,4,5-TRICHLOROPHENOL	---	5,200,000U	ug/Kg
92-52-4	1,1'-BIPHENYL	---	5,200,000U	ug/Kg
91-58-7	2-CHLORONAPHTHALENE	---	5,200,000U	ug/Kg
88-74-4	2-NITROANILINE	---	5,200,000U	ug/Kg
131-11-3	DIMETHYL PHTHALATE	---	5,200,000U	ug/Kg
208-96-8	ACENAPHTHYLENE	13,000,000		ug/Kg
606-20-2	2,6-DINITROTOLUENE	---	5,200,000U	ug/Kg
99-09-2	3-NITROANILINE	---	5,200,000U	ug/Kg
83-32-9	ACENAPHTHENE	---	5,200,000U	ug/Kg
51-28-5	2,4-DINITROPHENOL	---	52,000,000U	ug/Kg
100-02-7	4-NITROPHENOL	---	17,000,000U	ug/Kg
132-64-9	DIBENZOFURAN	9,800,000		ug/Kg
121-14-2	2,4-DINITROTOLUENE	---	5,200,000U	ug/Kg
86-73-7	FLUORENE	13,000,000		ug/Kg
84-66-2	DIETHYLPHthalate	---	5,200,000U	ug/Kg
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	---	5,200,000U	ug/Kg
100-01-6	4-NITROANILINE	---	5,200,000U	ug/Kg
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	17,000,000U	ug/Kg
86-30-6	N-NITROSODIPHENYLAMINE	---	5,200,000U	ug/Kg
101-55-3	4-BROMOPHENYL-PHENYLETHER	---	5,200,000U	ug/Kg
118-74-1	HEXACHLOROBENZENE	---	5,200,000U	ug/Kg
1912-24-9	ATRAZINE	---	5,200,000U	ug/Kg
87-86-5	PENTACHLOROPHENOL	---	17,000,000U	ug/Kg
85-01-8	PHENANTHRENE	47,000,000		ug/Kg
120-12-7	ANTHRACENE	9,400,000		ug/Kg
86-74-8	CARBAZOLE	5,300,000		ug/Kg
84-74-2	DI-N-BUTYLPHTHALATE	---	5,200,000U	ug/Kg
206-44-0	FLUORANTHENE	33,000,000		ug/Kg
129-00-0	PYREN	24,000,000		ug/Kg
85-68-7	BUTYLBENZYLPHthalate	---	5,200,000U	ug/Kg
91-94-1	3,3'-DICHLOROBENZIDINE	---	5,200,000U	ug/Kg
56-55-3	BENZO(A)ANTHRACENE	10,000,000		ug/Kg
218-01-9	CHRYSENE	8,800,000		ug/Kg
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	---	5,200,000U	ug/Kg
117-84-0	DI-N-OCTYL PHTHALATE	---	5,200,000U	ug/Kg
205-99-2	BENZO(B)FLUORANTHENE	9,800,000		ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05712

Field/Station ID: LEFT BURNT TANK #8
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: NVOA GCMS SOM1.1 SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
207-08-9	BENZO(K)FLUORANTHENE	---	5,200,000U	ug/Kg
50-32-8	BENZO(A)PYRENE	8,500,000		ug/Kg
193-39-5	INDENO(1,2,3-CD)PYRENE	5,300,000		ug/Kg
53-70-3	DIBENZO(A,H)ANTHRACENE	---	5,200,000U	ug/Kg
191-24-2	BENZO(G,H,I)PERYLENE	---	5,200,000U	ug/Kg
58-90-2	2,3,4,6-TETRACHLOROPHENOL	---	5,200,000U	ug/Kg

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

CAS Number	Analyte Name	Result	Remark Codes	Units
75-71-8	DICHLORODIFLUOROMETHANE	---	31,000U	ug/Kg
74-87-3	CHLOROMETHANE	---	31,000U	ug/Kg
75-01-4	VINYL CHLORIDE	---	31,000U	ug/Kg
74-83-9	BROMOMETHANE	---	31,000U	ug/Kg
75-00-3	CHLOROETHANE	---	31,000U	ug/Kg
75-69-4	TRICHLOROFLUOROMETHANE	---	31,000U J	ug/Kg
75-35-4	1,1-DICHLOROETHENE	---	31,000U	ug/Kg
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	31,000U	ug/Kg
75-15-0	CARBON DISULFIDE	---	31,000U	ug/Kg
67-64-1	ACETONE	---	62,000U	ug/Kg
79-20-9	METHYL ACETATE	---	31,000U	ug/Kg
75-09-2	METHYLENE CHLORIDE	---	31,000U	ug/Kg
156-60-5	TRANS-1,2-DICHLOROETHENE	---	31,000U	ug/Kg
156-59-2	CIS-1,2-DICHLOROETHENE	---	31,000U	ug/Kg
1634-04-4	METHYL TERT-BUTYL ETHER	---	31,000U	ug/Kg
75-34-3	1,1-DICHLOROETHANE	---	31,000U	ug/Kg
78-93-3	2-BUTANONE	---	62,000U	ug/Kg
67-66-3	CHLOROFORM	---	31,000U	ug/Kg
71-55-6	1,1,1-TRICHLOROETHANE	---	31,000U	ug/Kg
110-82-7	CYCLOHEXANE	---	31,000U	ug/Kg
56-23-5	CARBON TETRACHLORIDE	---	31,000U	ug/Kg
107-06-2	1,2-DICHLOROETHANE	---	31,000U	ug/Kg
71-43-2	BENZENE	140,000	L	ug/Kg
79-01-6	TRICHLOROETHENE	---	31,000U J	ug/Kg
108-87-2	METHYLCYCLOHEXANE	---	31,000U L	ug/Kg
78-87-5	1,2-DICHLOROPROPANE	---	31,000U L	ug/Kg
75-27-4	BROMODICHLOROMETHANE	---	31,000U L	ug/Kg
10061-01-5	CIS-1,3-DICHLOROPROPENE	---	31,000U L	ug/Kg
108-10-1	4-METHYL-2-PENTANONE	---	62,000U L	ug/Kg

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM

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U.S. EPA Region 2 Laboratory
Data Report

Survey Name: TONAWANDA COKE

Project Number: 09090018

*Sorted By Sample ID

AL05712 Field/Station ID: LEFT BURNT TANK #8
Matrix: Sludge

Date Received: 9/14/2009

Sample Description:

Analysis Type: VOA SOM01.1 TCL LOW GCMS SOLID

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
10061-02-6	TRANS-1,3-DICHLOROPROPENE	---	31,000U L	ug/Kg
108-88-3	TOLUENE	80,000	L	ug/Kg
79-00-5	1,1,2-TRICHLOROETHANE	---	31,000U	ug/Kg
127-18-4	TETRACHLOROETHENE	---	31,000U	ug/Kg
591-78-6	2-HEXANONE	---	62,000U	ug/Kg
106-93-4	1,2-DIBROMOETHANE	---	31,000U	ug/Kg
124-48-1	DIBROMOCHLOROMETHANE	---	31,000U	ug/Kg
108-90-7	CHLOROBENZENE	---	31,000U	ug/Kg
100-41-4	ETHYLBENZENE	---	31,000U	ug/Kg
1330-20-7	M+P-XYLENE	57,000	---	ug/Kg
95-47-6	O-XYLENE	---	31,000U K	ug/Kg
100-42-5	STYRENE	---	31,000U	ug/Kg
75-25-2	BROMOFORM	---	31,000U	ug/Kg
98-82-8	ISOPROPYLBENZENE	---	31,000U	ug/Kg
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	31,000U	ug/Kg
541-73-1	1,3-DICHLOROBENZENE	---	31,000U	ug/Kg
106-46-7	1,4-DICHLOROBENZENE	---	31,000U	ug/Kg
95-50-1	1,2-DICHLOROBENZENE	---	31,000U	ug/Kg
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	---	31,000U L	ug/Kg
0120-82-1	1,2,4-TRICHLOROBENZENE	---	62,000U	ug/Kg
87-61-6	1,2,3-TRICHLOROBENZENE	---	62,000U	ug/Kg
74-97-5	BROMOCHLOROMETHANE	---	31,000U	ug/Kg

Analysis Type: VOA GCMS TCLP LIST NAPL

<u>CAS Number</u>	<u>Analyte Name</u>	<u>Result</u>	<u>Remark Codes</u>	<u>Units</u>
75-01-4	VINYL CHLORIDE	---	0.10U	mg/L
75-35-4	1,1-DICHLOROETHENE	---	0.10U	mg/L
78-93-3	2-BUTANONE	---	0.10U	mg/L
67-66-3	CHLOROFORM	---	0.10U	mg/L
56-23-5	CARBON TETRACHLORIDE	---	0.10U	mg/L
107-06-2	1,2-DICHLOROETHANE	---	0.10U	mg/L
71-43-2	BENZENE	3.0	---	mg/L
79-01-6	TRICHLOROETHENE	---	0.10U	mg/L
127-18-4	TETRACHLOROETHENE	---	0.10U	mg/L
108-90-7	CHLOROBENZENE	---	0.10U	mg/L

Project Approval: _____

Date: _____

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/26/2009 11:54AM



US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 1 of 4 pages

SURVEY NAME & LOCALITY Tonawanda Coke - Tonawanda, NY

PROGRAM: SF

Decision Unit Code Y206

RCRA D210

SITE ID

RCRA ENF
D307

NPDES
B304

SDWA
C215

AM
B224

CAA
A305

PROJECT LEADER Bob Morell

PROGRAM RESULTS CODE

TSCA
L306

OD
B253

FIFRA

CRIMINAL ENF

Permit #:

CONTENS
OF
MATRIX

CHECK IF
SPLIT
SAMPLE

DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION,
ESTIMATED CONCENTRATIONS, SPECIAL REPORTING
LIMITS.

Res CL
Checked

Preservative
(circle)

Collection Time
(24hr clock)
Begin / End

Collection
Date
mm/dd/yy

LAB ID/ FIELD ID

<u>Left. Burnt Tank #1</u>	<u>6</u>	<u>E</u>	<input type="checkbox"/> 2 8-oz. glass jar for TCLP VOA's <input type="checkbox"/> 1 4-oz. glass jar for Total VOA's <input type="checkbox"/> 1 1-liter amber glass jar for TCLP NUOA's <input type="checkbox"/> 1 4-oz. glass jar for Total NUOA's	<input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910	<u>1136</u>	<u>09/10/09</u>
<u>Left. Burnt Tank #2</u>	<u>4</u>	<u>E</u>	<input type="checkbox"/> 1 8-oz. glass jar for TCLP VOA's <input type="checkbox"/> 1 4-oz. glass jar for Total VOA's <input type="checkbox"/> 1 1-liter amber glass jar for TCLP NUOA's <input type="checkbox"/> 1 4-oz. glass jar for Total NUOA's	<input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910	<u>1148</u>	<u>09/10/09</u>

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked	
0=ice	7=FAS
1=H ₂ SO ₄ pH<2	8=ZnAc
2=HNO ₃ pH<2	9=NaOH pH>12
3=HCl pH<2	10=NH ₄ Cl
4=Na ₂ S ₂ O ₃	
5=NaOH pH>9	
6=Ascorbic Acid	

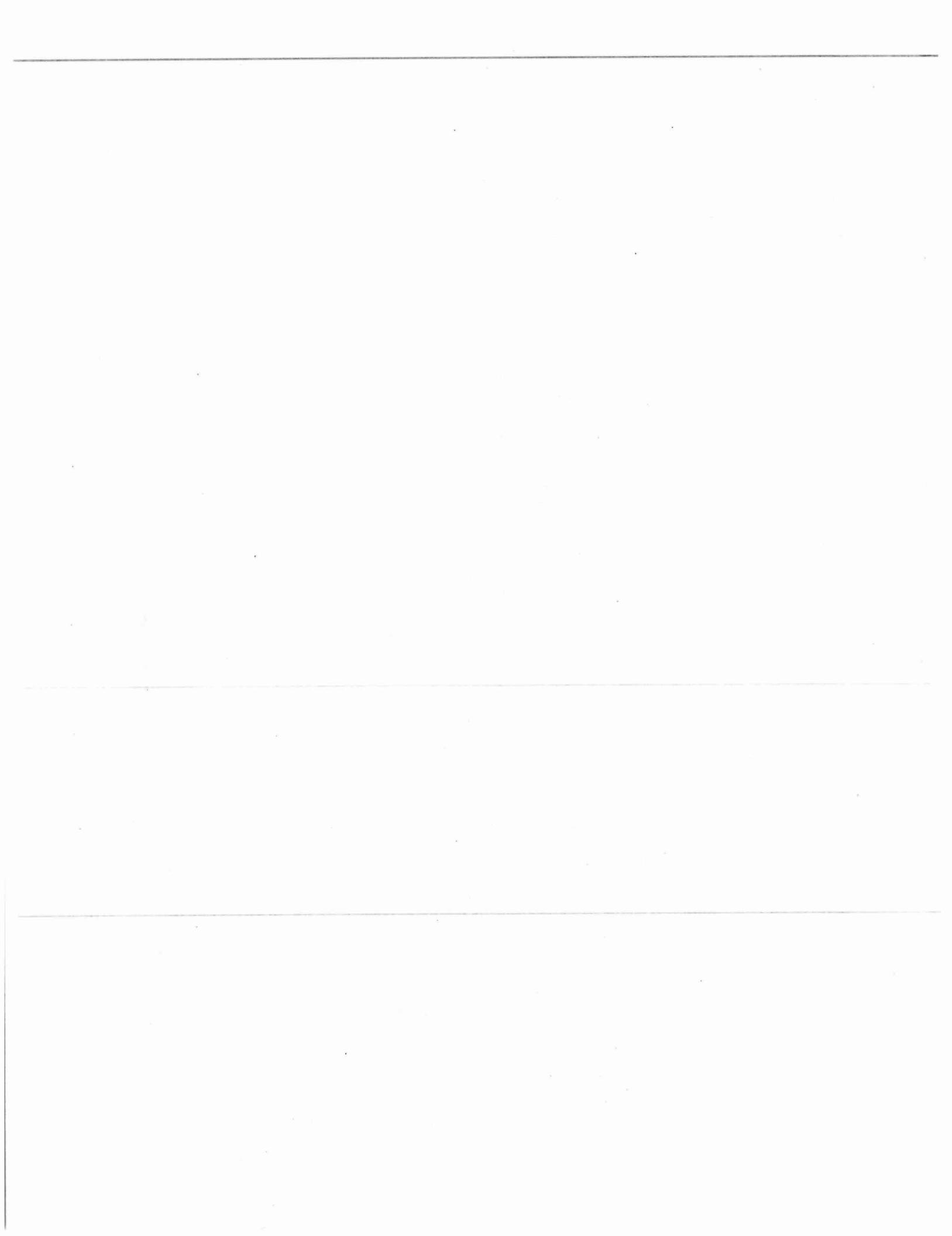
Time Date

Person Assuming Responsibility for Sample(s):
Robert A. Morell Jr. 1328 9/10/09

Matrix: A=aqueous B=aqueous (chlorinated) C=soil D=sediment E=sludge	F=multiphasic G=solvent H=biota I=oil J=other
	<u>Robert A. Morell Jr.</u>
	Relinquished By:
	Survey Complete? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>

Relinquished By: <u>Robert A. Morell Jr.</u>
Relinquished By:
Relinquished By:

Received By:	
Received By:	
Received By:	



US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 2 of 4 pages

SURVEY NAME & LOCALITY Tonawanda Coke - Tonawanda, NY

PROGRAM: SF

Decision

Unit Code Y206

RCRA

D210

SITE ID

RCRA ENF

D307

OPERABLE UNIT

NPDES

B304

SDWA

C215

AM

B224

CAA

A305

PROJECT LEADER

Bob Morell

PROGRAM RESULTS CODE

TSCA

L306

OD

B253

FIFRA

CRIMINAL ENF

Permit #:

CONTENS

OF
MATERIAL

CHECK IF
SPLIT
SAMPLE

DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION,
ESTIMATED CONCENTRATIONS, SPECIAL REPORTING
LIMITS.

Res CL
Checked

Preservative
(circle)

Collection Time
(24hr clock)
Begin : End

Collection
Date
mm/dd/yy

LAB ID/ FIELD ID

Left Burnt Tank #3	4	E	<input type="checkbox"/> 1 8-oz glass jar for TCLP VOA's <input type="checkbox"/> 1 4-oz. glass jar for Total VOA's <input type="checkbox"/> 1 1-liter amber glass jar for TCLP NVOA's <input type="checkbox"/> 1 4-oz glass jar for Total NVOA's	<input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910	1205	09/10/09
Left Burnt Tank #4	4	E	<input type="checkbox"/> 1 8-oz glass jar for TCLP VOA's <input type="checkbox"/> 1 4-oz. glass jar for Total VOA's <input type="checkbox"/> 1 1-liter amber glass jar for TCLP NVOA's <input type="checkbox"/> 1 4-oz glass jar for Total NVOA's	<input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910 <input type="checkbox"/> 012345678910	1210	09/10/09

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked
 0=ice 7=FAS
 1=H2SO4 pH<2 8=ZnAc
 2=HNO3 pH<2 9=NaOH pH>12
 3=HCl pH<2 10=NH4Cl
 4=Na2S2O3
 5=NaOH pH>9
 6=Ascorbic Acid

Time Date

Person Assuming Responsibility for Sample(s):

Robert A. Morell

1328 9/10/09

Received By:

Received By:

Received By:

Matrix:

A=aqueous

B=aqueous (chlorinated)

C=soil

D=sediment

E=sludge

F=multiphasic

G=solvent

H=biota

I=oil

J=other

Relinquished By:

Robert A. Morell

Relinquished By:

Relinquished By:

Survey Complete? Y N



US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 3 of 4 pages

SURVEY NAME & LOCALITY Tonawanda Coke - Tonawanda, NY

PROGRAM: SF

Decision Unit Code Y206

RCRA
D210

SITE ID _____

OPERABLE UNIT _____

PROJECT LEADER Bob Morrell

PROGRAM RESULTS CODE _____

RCRA ENF

NPDES

SDWA

AM

CAA

TSCA

OD

FIFRA

CRIMINAL ENF

D307

B304

C215

B224

A305

L306

B253

Permit #:

CONTENS

* OF
MATRIX
CHECK IF
SPLIT
SAMPLE

DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION,
ESTIMATED CONCENTRATIONS, SPECIAL REPORTING
LIMITS.

Res CL
Checked

Preservative
(circle)

Collection Time
(24hr clock)
Begin End
mm/dd/yy

LAB ID/ FIELD ID

Left Burnt Tank #5

4

E

1 8-oz glass jar for TCLP VOA's

012345678910

1 4-oz glass jar for Total VOA's

012345678910

1 1-liter amber glass jar for TCLP NVOA's

012345678910

1 4-oz glass jar for Total NVOA's

012345678910

Left Burnt Tank #6

4

E

1 8-oz glass jar for TCLP VOA's

012345678910

1 4-oz glass jar for Total VOA's

012345678910

1 1-liter amber glass jar for TCLP NVOA's

012345678910

1 4-oz glass jar for Total NVOA's

012345678910

012345678910

012345678910

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked
 0=ice 7=FAS
 1=H₂SO₄ pH<2 8=ZnAc
 2=HNO₃ pH<2 9=NaOH pH>12
 3=HCl pH<2 10=NH₄Cl
 4=Na₂SO₃
 5=NaOH pH>9
 6=Ascorbic Acid

Time _____ Date _____

Person Assuming Responsibility for Sample(s):

Robert Morrell

1828 9/10/09

Matrix:

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge

F=multiphasic
G=solvent
H=biota
I=oil
J=other

Relinquished By:

Robert Morrell

Received By:

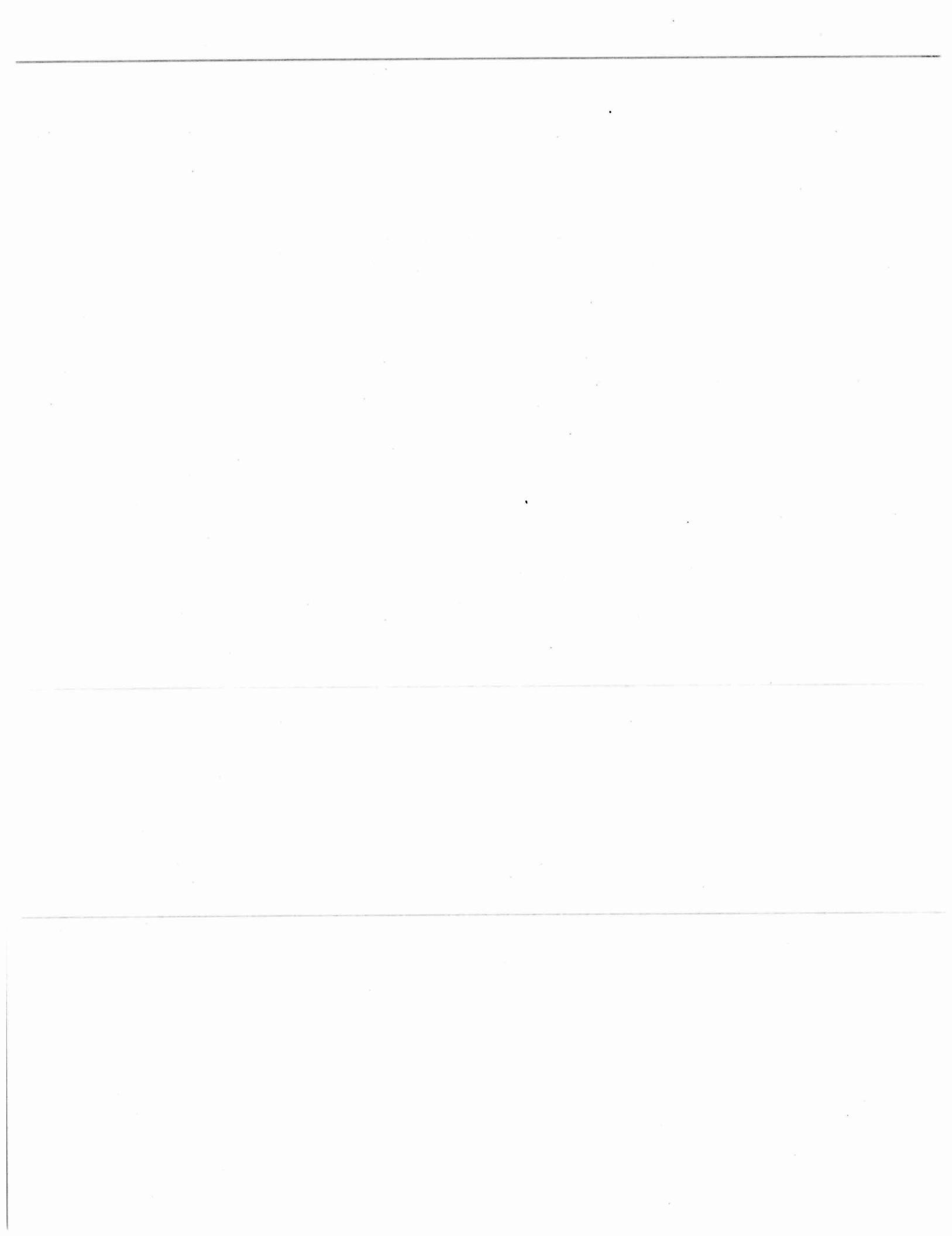
Relinquished By:

Received By:

Relinquished By:

Received By:

Survey Complete? Y N



**US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM**

**SURVEY NAME & LOCALITY
PROGRAM: SF :**

Tonawanda Coke - Tonawanda, NY

Decision

Decision RCRA
Unit Code Y206 D210

RCRA ENF NPDES
D307 B304

OPERABLE UNIT _____

PROJECT LEADER

PROGRAM RESULTS COD

TSCA OD FIFRA CRIMINAL ENF
L306 B253

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked	
0=ice	7=FAS
1=H ₂ SO ₄ pH<2	8=ZnAc
2=HNO ₃ pH<2	9=NaOH pH>12
3=HCl pH<2	10=NH4Cl
4=Na ₂ SO ₃	
5=NaOH pH>9	
6=Ascorbic Acid	

Person Assuming Responsibility for Sample(s):	Time	Date
<u>Ronald A. Monello</u>	1328	9/10/09
Received By:		
Received By:		
Received By:		

Matrix:	
A=aqueous	F=multiphasic
B=aqueous (chlorinated)	G=solvent
C=soil	H=biota
D=sediment	I=oil
E=sludge	J=other

Relinquished By:

Relinquished By:

Requisitioned By:

Survey Complete? Y N

